

Regional HIV/AIDS Epidemiologic Profile of Barnstable County, Massachusetts: 2015

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Disease, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2015, this resulted in the removal of 4,401 HIV/AIDS cases, of which 1,021 have died and 3,380 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS, irrespective of location at diagnosis, is the basis for MDPH service planning. Please note that previous HIV/AIDS fact sheets, data reports and presentations included cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the MDPH HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual risk category for men; those cases have been reassigned to the no identified risk (NIR) category. The presumed heterosexual risk category was used with the intention of identifying HIV risk for women when sex with men is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. The application of the presumed heterosexual risk category to men is overly inclusive in that woman to man HIV transmission is biologically less probable, and there are alternate risks that are possible for men, including sex with other men (MSM) or IDU. The CDC reports men diagnosed with HIV/AIDS who report sex with women as their only risk factor, without corresponding partner risk or HIV status information, in the NIR category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for men in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual risk categories for women.

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2014: Barnstable County, Massachusetts²

	N	%
People Living with HIV/AIDS	653	60%
People Reported with HIV or AIDS who are Deceased	435	40%
Total Number of People Reported with HIV Infection or AIDS	1,088	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 2. Average annual rate of HIV infection diagnosis from 2011 to 2013 and HIV/AIDS prevalence rate on 12/31/14¹: Barnstable County, Massachusetts²

Average annual HIV diagnosis rate from 2011–2013	Average rate per 100,000	Average annual number of HIV diagnoses
Barnstable County, MA	7.9	17.0
Massachusetts Total	10.7	701.3
HIV/AIDS prevalence rate on 12/31/14	Rate per 100,000	Number of people living with HIV/AIDS
Barnstable County, MA	302.5	653
Massachusetts Total	301.5	19,737

¹ The denominators for rate calculations are from the MDPH Massachusetts Race Allocated Census 2010 Estimates (MRACE 2010), Massachusetts Department of Public Health, Bureau of Health Information, Statistics, Research, and Evaluation.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 2004–2013, Barnstable County, Massachusetts³

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
2004	476	7	26
2005	495	7	26
2006	527	3	35
2007	551	4	28
2008	567	4	20
2009	587	5	25
2010	606	8	27
2011	617	7	18
2012	623	7	13
2013	639	4	20

¹ Number of people living with HIV/AIDS on 12/31 of each year

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 4. People diagnosed with HIV infection from 2011–2013¹ and people living with HIV/AIDS on December 31, 2014 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Barnstable County, Massachusetts²

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	45	88%	567	87%
Female	6	12%	86	13%
Place of Birth:	N	%	N	%
US	43	84%	560	86%
Puerto Rico/US Dependency ³	-- ⁷	-- ⁷	7	1%
Non-US	-- ⁷	-- ⁷	86	13%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	36	71%	544	83%
Black (non-Hispanic)	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Hispanic/Latino	11	22%	54	8%
Asian/Pacific Islander	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	38	75%	472	72%
Injection Drug Use (IDU)	0	0%	47	7%
MSM/IDU	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Heterosexual Sex	-- ⁷	-- ⁷	41	6%
Other	0	0%	-- ⁷	-- ⁷
Total Undetermined	11	22%	63	10%
• Presumed Heterosexual Sex ⁴	5	10%	24	4%
• Undetermined ⁵	6	12%	39	6%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2014	
Under 13	0	0%	0	0%
13 to 19	-- ⁷	-- ⁷	0	0%
20 to 24	-- ⁷	-- ⁷	5	1%
25 to 29	-- ⁷	-- ⁷	9	1%
30 to 34	-- ⁷	-- ⁷	14	2%
35 to 39	5	10%	29	4%
40 to 44	10	20%	55	8%
45 to 49	11	22%	94	14%
50 to 54	0	0%	162	25%
55 to 59	8	16%	125	19%
60+	-- ⁷	-- ⁷	160	25%
Total⁶	51	100%	653	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-nine percent of people diagnosed with HIV infection from 2011–2013 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Total includes American Indian/Alaska Native, other and unspecified race/ethnicity.

⁷ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 5. People living with HIV/AIDS on December 31, 2014 by gender and race/ethnicity: Barnstable County, Massachusetts¹

	Male		Female	
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	484	85%	60	70%
Black (non-Hispanic)	31	5%	14	16%
Hispanic/Latino	46	8%	8	9%
Total²	567	100%	86	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Total includes Asian/Pacific Islander, American Indian/Alaska Native, other and unspecified race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 6. People living with HIV/AIDS on December 31, 2014 by gender and exposure mode: Barnstable County, Massachusetts¹

	Male		Female	
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	472	83%	N/A	N/A
Injection drug use (IDU)	25	4%	22	26%
MSM/IDU	27	5%	N/A	N/A
Heterosexual sex	-- ⁴	-- ⁴	35	41%
Other	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Total Undetermined	35	6%	-- ⁴	-- ⁴
• Presumed heterosexual sex ²	N/A	N/A	24	28%
• Undetermined ³	35	6%	-- ⁴	-- ⁴
Total	567	100%	86	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Includes female sex with male of unknown HIV status or risk. This category is limited to females.

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁴ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Barnstable County, Massachusetts¹, 2004–2013²

	Male		Female		Total
	N	%	N	%	
2004	25	96%	1	4%	26
2005	24	92%	2	8%	26
2006	29	83%	6	17%	35
2007	26	93%	2	7%	28
2008	17	85%	3	15%	20
2009	23	92%	2	8%	25
2010	23	85%	4	15%	27
2011	16	89%	2	11%	18
2012	12	92%	1	8%	13
2013	17	85%	3	15%	20

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Barnstable County, Massachusetts¹, 2004–2013²

	White Non-Hispanic		Black Non-Hispanic		Hispanic/Latino		Total ³
	N	%	N	%	N	%	N
2004	16	62%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	26
2005	21	81%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	26
2006	26	74%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	35
2007	20	71%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	28
2008	16	80%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	20
2009	21	84%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	25
2010	24	89%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	27
2011	13	72%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	18
2012	9	69%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	13
2013	14	70%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	20

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Totals include Asian/Pacific Islander, American Indian/Alaskan Native individuals, and those of other or undetermined race/ethnicity.

⁴ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Barnstable County, Massachusetts¹, 2004–2013²

	US		Puerto Rico/ US Dependency ³		Non-US		Total
	N	%	N	%	N	%	N
2004	20	77%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	26
2005	23	88%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	26
2006	25	71%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	35
2007	23	82%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	28
2008	16	80%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	20
2009	22	88%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	25
2010	25	93%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	27
2011	14	78%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	18
2012	12	92%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	13
2013	17	85%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	20

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Ninety-eight percent of people living with HIV/AIDS in MA who were born in a US dependency were born in Puerto Rico, 2% were born in US minor outlying areas, <1% were born in the US Virgin Islands, and <1% were born in Guam.

⁴ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Barnstable County, Massachusetts¹, 2004–2013²

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX ³		Undeter- mined ⁴		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2004	19	73%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	0	0%	0	0%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	26
2005	18	69%	0	0%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	0	0%	0	0%	-- ⁵	-- ⁵	26
2006	25	71%	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	35
2007	22	79%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	0	0%	28
2008	12	60%	0	0%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	20
2009	20	80%	0	0%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	0	0%	0	0%	-- ⁵	-- ⁵	25
2010	19	70%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	0	0%	27
2011	13	72%	0	0%	0	0%	0	0%	0	0%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	18
2012	10	77%	0	0%	0	0%	-- ⁵	-- ⁵	0	0%	0	0%	-- ⁵	-- ⁵	13
2013	15	75%	0	0%	-- ⁵	-- ⁵	0	0%	0	0%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	20

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Barnstable County, Massachusetts¹, 2004–2013²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
2004	12	26	46%
2005	8	26	31%
2006	12	35	34%
2007	12	28	43%
2008	8	20	40%
2009	6	25	24%
2010	7	27	26%
2011	5	18	28%
2012	4	13	31%
2013	5	20	25%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.
Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Barnstable County, Massachusetts,¹ 2011–2013²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Gender:	N	N	%
Male	10	45	22%
Female	4	6	67%
Race/Ethnicity:	N	N	%
White (non-Hispanic)	8	36	22%
Black (non-Hispanic)	-- ⁵	-- ⁵	-- ⁵
Hispanic/Latino	-- ⁵	-- ⁵	-- ⁵
Asian/Pacific Islander	-- ⁵	-- ⁵	-- ⁵
Place of Birth:	N	N	%
US	11	43	26%
Puerto Rico/US Dependencies ⁴	-- ⁵	-- ⁵	-- ⁵
Non-US	-- ⁵	-- ⁵	-- ⁵
Total	14	51	27%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ Includes American Indian/Alaska Native, other and unspecified race/ethnicity.

⁴ Ninety-nine percent of people diagnosed with HIV infection from 2011–2013 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15